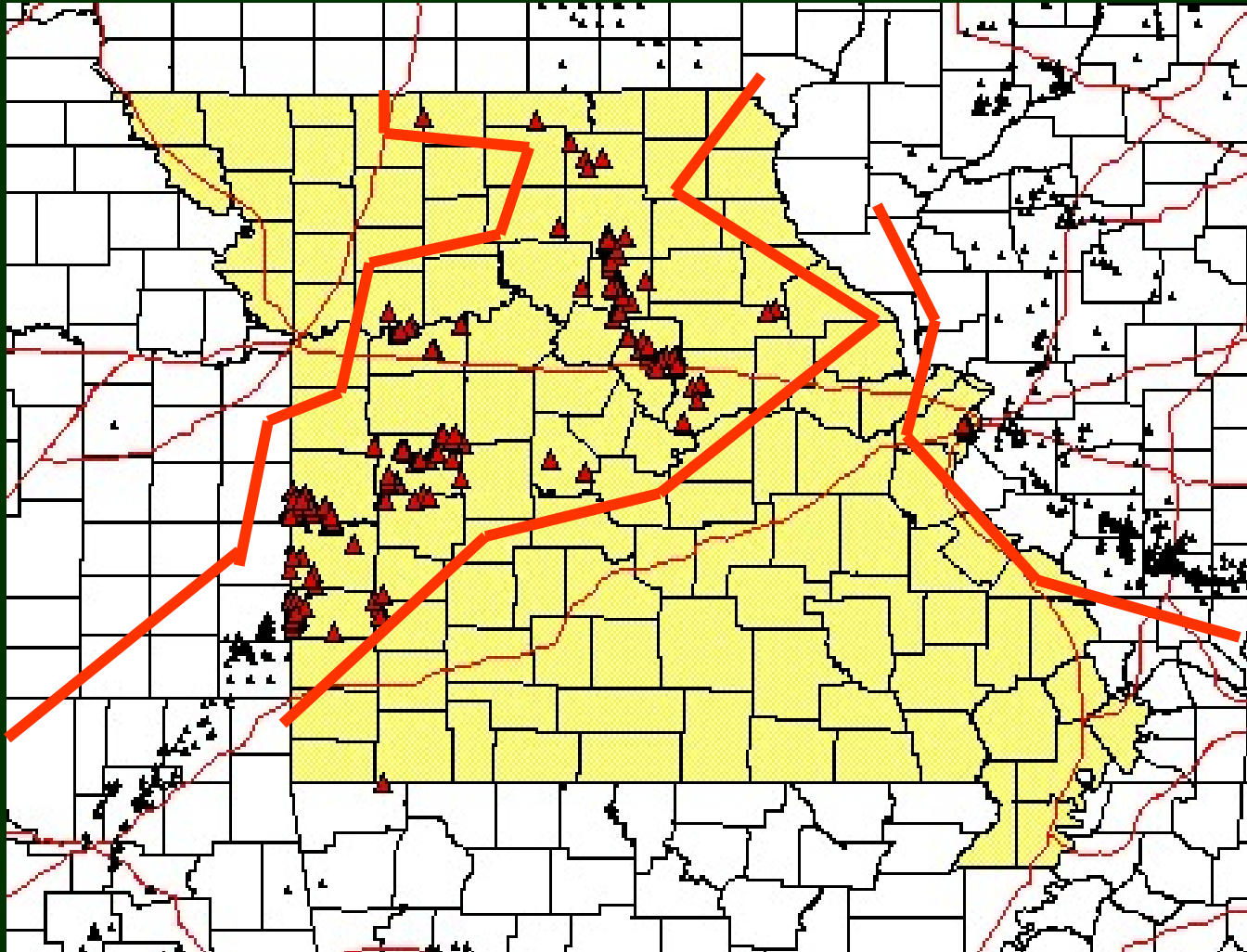


Location of Missouri's Abandoned Mine Land Problem Areas





AML Accomplishments in Missouri

- 110 abandoned mine land projects
- 4000 acres of barren and eroding mine lands reclaimed in 22 counties
- 181 coal mine vertical shafts closed
- 87,671 feet of vertical highwall eliminated
- 50 polluted water incidents abated
- 70 acres of trash dumps eliminated that created health hazards
- Nearly all of these areas were on private lands owned by Missouri citizens
- These lands were reclaimed at no cost to the landowners

AML PAST PROJECTS



Typical before and after
photos of an AML project





Dangerous Coal Shaft Closures

- In 1996 a child drowned after he fell into an abandoned well in the town of Mindenmines, in Barton County. This town started as a large coal mining town and has a history of underground and surface coal mining operations. After the Office of Surface Mining declared these wells eligible for Abandoned Coal Mine Land funding, 49 wells or cisterns were closed within one year.



Dangerous Non-Coal Shaft Closures

- 29 dangerous lead mine shafts have been closed in three counties
- Many of these mine closures are located in rapidly developing areas and some even within private residential developments

LEAD/ZINC SHAFT (JASPER COUNTY)



**SINCE NOVEMBER, 2001 TWENTY-NINE NON-COAL
SHAFTS HAVE BEEN ELIMINATED**



TYPICAL SHAFT CLOSURE





AML Subsidence

- Voids under several houses and one school have been grouted to protect them from the hazards of mine subsidence
- In 1995, approximately \$400,000 in Abandoned Coal Mine Land funds were used to grout under the Westran School in Huntsville in Randolph County after it was learned that the school was built over an abandoned underground mine

AML Emergencies

- Several areas in and around St. Louis were mined underground for coal or clay. Department staff investigated several subsidence occurrences near homes each year in the St. Louis area. If mining is suspected, exploratory drilling is conducted and mine voids are grouted to prevent further subsidence.



AML Emergencies

- During November of 2000 a fire was burning on 5 acres of mine spoil near Perry in Ralls County, and it caused noxious fumes that affected citizens living adjacent to the area. An emergency was declared and a contractor was working on the site within 7 days. The fire was extinguished after 10 days of work at a cost of \$24,165.

PERRY MINE FIRE, MONROE COUNTY



PERRY MINE FIRE, MONROE COUNTY





AML Emergencies

- This spring, an open shaft appeared overnight in Fulton, Callaway County, near the YMCA. Within two weeks, the department made the area safe for local residents by using federal abandoned mine land funds to fill the shaft with rock.

FULTON YMCA COAL SHAFT CLOSURE

